

10/561144

IAP20 Rec'd PCT/PTO 16 DEC 2005

**AMENDMENT**

(Amendment according to provision of Article 11)

To Examiner of the Patent Office

1. Indication of International Application

PCT/JP2004/008699

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4. Object of amendment Description and Claims

5. Contents of amendment

- (1) In the description, page 4, line 3 (page 4, line 19 in the English version), "uridine" has been amended to "u".
- (2) In the claims, page 122, claim 5 (page 140 in the English version), "uridine" has been amended to "u".
- (3) In the claims, page 122 (page 145 in the English version), claims 45-51 have been added.

6. List of the annexed document

- (1) New substitute sheet for page 4
- (2) New substitute sheets for the claims,  
pages 122, 126 and 126/1  
(pages 140-145 in the English version)

the present invention.

Accordingly, the present invention provides:

- [1] a protein comprising the same or substantially the same amino acid sequence as the amino acid sequence starting at 5 Amino Acid No.1 in the amino acid sequence shown by SEQ ID NO:2 or 4 or a salt thereof,
- [2] the protein described in [1] above, which comprises the same or substantially the same amino acid sequence as the amino acid sequence starting at Amino Acid No.1 in the amino acid 10 sequence shown by SEQ ID NO:2 or 4 or a salt thereof,
- [3] a partial peptide of the protein described in [1] above or a salt thereof,
- [4] a nucleic acid comprising a base sequence encoding the protein described in [1] above,
- [5] the nucleic acid described in [4] above, which comprises the base sequence starting at Base No.88 in the base sequence shown by SEQ ID NO:1 or 3 (if the nucleic acid is an RNA, however, the base shown by the symbol t in the base sequence is replaced with u),
- [6] a nucleic acid comprising a base sequence encoding a polypeptide comprising the same or substantially the same amino acid sequence as the amino acid sequence shown by SEQ ID NO:2 or 4, or a portion thereof,
- [7] a recombination vector comprising the nucleic acid 25 described in [4] above,
- [8] a transformant obtained by transforming a host cell with the recombination vector described in [7] above,
- [9] a method of producing the protein described in [1] above or a salt thereof, which comprises culturing the transformant 30 described in [8] above to produce the protein or a salt thereof,
- [10] a pharmaceutical containing the protein described in [1] above or the partial peptide described in [3] above or a salt thereof,
- [11] a pharmaceutical containing the nucleic acid described in

## Claims

1. A protein comprising the same or substantially the same amino acid sequence as the amino acid sequence starting at 5 Amino Acid No.1 in the amino acid sequence shown by SEQ ID NO:2 or 4 or a salt thereof.
  2. The protein of claim 1, which comprises the same or substantially the same amino acid sequence as the amino acid 10 sequence starting at Amino Acid No.1 in the amino acid sequence shown by SEQ ID NO:2 or 4 or a salt thereof.
  3. A partial peptide of the protein of claim 1 or a salt thereof.
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4. A nucleic acid comprising a base sequence encoding the protein of claim 1.
  5. (Amended) The nucleic acid of claim 4, which comprises the 20 base sequence starting at Base No.88 in the base sequence shown by SEQ ID NO:1 or 3 (if the nucleic acid is an RNA, however, the base shown by the symbol t in the base sequence is replaced with u).
  6. A nucleic acid comprising a base sequence encoding a polypeptide comprising the same or substantially the same amino acid sequence as the amino acid sequence shown by SEQ ID NO:2 or 4, or a portion thereof.
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7. A recombination vector comprising the nucleic acid of claim 4.
  8. A transformant obtained by transforming a host cell with the recombination vector of claim 7.

9. A method of producing the protein of claim 1 or a salt thereof, which comprises culturing the transformant of claim 8 to produce the protein or a salt thereof.

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10. A pharmaceutical containing the protein of claim 1 or the partial peptide of claim 3 or a salt thereof.

11. A pharmaceutical containing the nucleic acid of claim 4.

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12. The pharmaceutical of claim 10 or 11, which is a prophylactic/therapeutic agent for a disease involved in differentiation of skeletal muscle cell and/or metabolic abnormality.

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13. The pharmaceutical of claim 12, wherein the metabolic abnormality is a sugar/lipid metabolic abnormality.

14. A prophylactic/therapeutic method for a disease involved in  
20 differentiation of skeletal muscle cell and/or metabolic abnormality, which comprises administering an effective amount of the protein of claim 1, the partial peptide of claim 3 or a salt thereof, or the nucleic acid of claim 4, to a mammal.

25 15. The method of claim 14, wherein the metabolic abnormality is a sugar/lipid metabolic abnormality.

16. A use of the protein of claim 1, the partial peptide of claim 3 or a salt thereof, or the nucleic acid of claim 4,  
30 which is for producing a prophylactic/therapeutic agent for a disease involved in differentiation of skeletal muscle cell and/or metabolic abnormality.

17. The use of claim 16, wherein the metabolic abnormality is a

sugar/lipid metabolic abnormality.

18. A diagnostic reagent containing the nucleic acid of claim 6.

5 19. An antibody against the protein of claim 1 or the partial peptide of claim 3 or a salt thereof.

20. A diagnostic reagent containing the antibody of claim 19.

10 21. The diagnostic reagent of claim 18 or 20, which is for diagnosing a disease involved in differentiation of skeletal muscle cell and/or metabolic abnormality.

22. A pharmaceutical containing the antibody of claim 19.

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23. A nucleic acid comprising a base sequence complementary to the base sequence encoding a polypeptide comprising the same or substantially the same amino acid sequence as the amino acid sequence shown by SEQ ID NO:2 or 4, or a portion thereof.

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24. A pharmaceutical containing the nucleic acid of claim 23.

25 25. The pharmaceutical of claim 22 or 24, which is a prophylactic/therapeutic agent for a disease involved in differentiation of skeletal muscle cell and/or metabolic abnormality.

26. The pharmaceutical of claim 25, wherein the metabolic abnormality is a sugar/lipid metabolic abnormality.

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27. A prophylactic/therapeutic method for a disease involved in differentiation of skeletal muscle cell and/or metabolic abnormality, which comprises administering an effective amount of the antibody of claim 19 or the nucleic acid of claim 23 to

a mammal.

28. The method of claim 27, wherein the metabolic abnormality is a sugar/lipid metabolic abnormality.

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29. A use of the antibody of claim 19 or the nucleic acid of claim 23, which is for producing a prophylactic/therapeutic agent for a disease involved in differentiation of skeletal muscle cell and/or metabolic abnormality.

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30. The use of claim 29, wherein the metabolic abnormality is a sugar/lipid metabolic abnormality.

31. A screening method for a prophylactic/therapeutic substance for a disease involved in differentiation of skeletal muscle cell and/or metabolic abnormality, which comprises using the protein of claim 1 or the partial peptide of claim 3 or a salt thereof.

20 32. The screening method of claim 31, wherein the metabolic abnormality is a sugar/lipid metabolic abnormality.

33. A screening kit for a prophylactic/therapeutic substance for a disease involved in differentiation of skeletal muscle cell and/or metabolic abnormality, which comprises the protein of claim 1 or the partial peptide of claim 3 or a salt thereof.

34. The screening kit of claim 33, wherein the metabolic abnormality is a sugar/lipid metabolic abnormality.

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35. A screening method for a prophylactic/therapeutic substance for a disease involved in differentiation of skeletal muscle cell and/or metabolic abnormality, which comprises using the nucleic acid of claim 4.

36. The screening method of claim 35, wherein the metabolic abnormality is a sugar/lipid metabolic abnormality.

5 37. A screening kit for a prophylactic/therapeutic substance for a disease involved in differentiation of skeletal muscle cell and/or metabolic abnormality, which comprises the nucleic acid of claim 4.

10 38. The screening kit of claim 37, wherein the metabolic abnormality is a sugar/lipid metabolic abnormality.

15 39. A prophylactic/therapeutic agent for a disease involved in differentiation of skeletal muscle cell and/or metabolic abnormality, which contains a regulator of the protein of claim 1 or a salt thereof.

40. The prophylactic/therapeutic agent of claim 39, wherein the metabolic abnormality is a sugar/lipid metabolic abnormality.

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41. A prophylactic/therapeutic method for a disease involved in differentiation of skeletal muscle cell and/or metabolic abnormality, which comprises administering an effective amount of a regulator of the protein of claim 1 or a salt thereof to a 25 mammal.

42. The method of claim 41, wherein the metabolic abnormality is a sugar/lipid metabolic abnormality.

30 43. A use of a regulator of the protein of claim 1 or a salt thereof for producing a prophylactic/therapeutic agent for a disease involved in differentiation of skeletal muscle cell and/or metabolic abnormality.

44. The use of claim 43, wherein the metabolic abnormality is a sugar/lipid metabolic abnormality.

45. (Added) A screening method for a prophylactic/therapeutic substance for a disease involved in differentiation of skeletal muscle cell and/or metabolic abnormality, which comprises using the antibody of claim 19.

46. (Added) The method of claim 45, which comprises bringing a cell producing the protein of claim 1 or the partial peptide of claim 3 or a salt thereof into contact with a test compound and determining a production amount of the protein or the partial peptide or the salt thereof by the cell.

47. (Added) The method of claim 46, which comprises determining the extracellular amount of the protein of claim 1 or the partial peptide of claim 3 or the salt thereof.

48. (Added) The method of claim 45, wherein the metabolic abnormality is a sugar/lipid metabolic abnormality.

49. (Added) A screening kit for a prophylactic/therapeutic substance for a disease involved in differentiation of skeletal muscle cell and/or metabolic abnormality, which comprises the antibody of claim 19.

50. (Added) The kit of claim 49, which further comprises a cell producing the protein of claim 1 or the partial peptide of claim 3 or a salt thereof.

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51. (Added) The kit of claim 49, wherein the metabolic abnormality is a sugar/lipid metabolic abnormality.